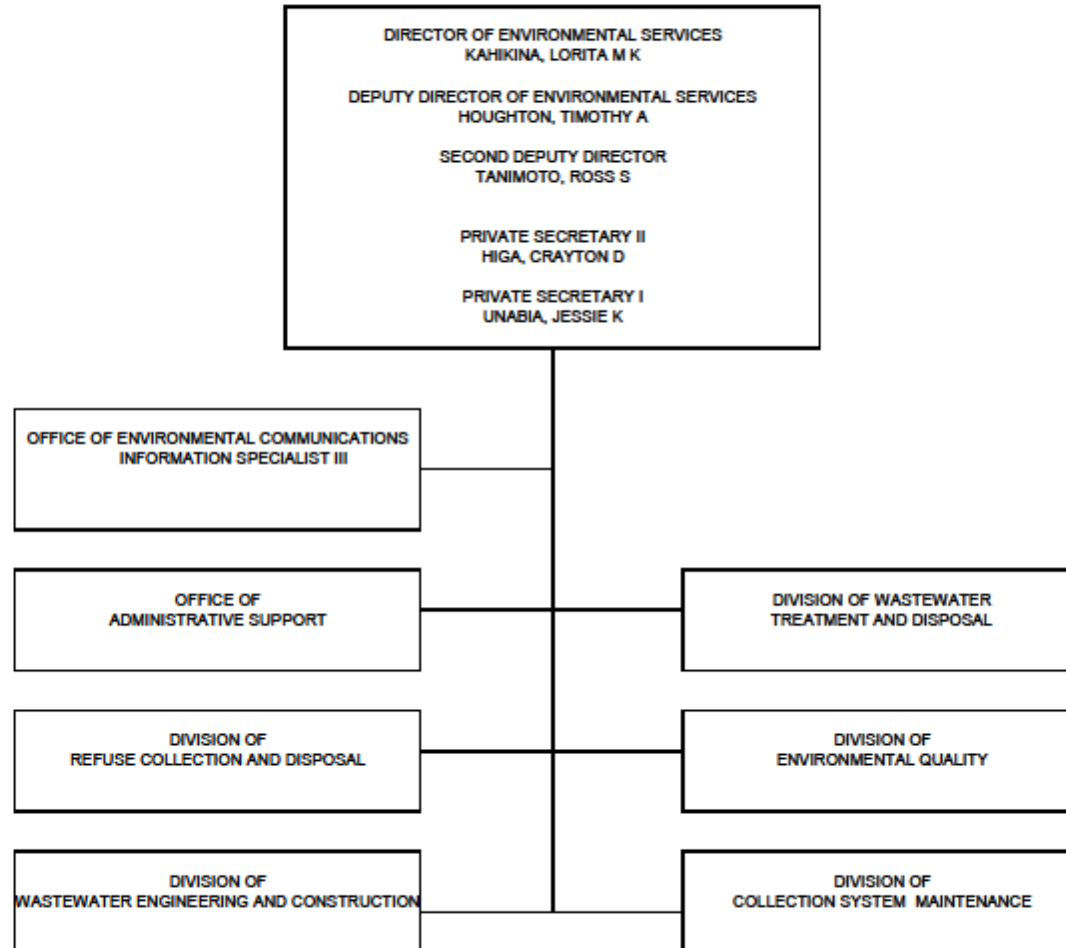


DEPARTMENT OF ENVIRONMENTAL SERVICES  
FY 2021 CAPITAL AND OPERATING BUDGET  
REQUEST  
March 13, 2020

DEPT. COM. 190

BUDGET

DEPARTMENT OF ENVIRONMENTAL SERVICES



# ENV Departmental Programs

## FY 2021 BUDGET

	FY 20	FY 21	\$ Change	% Change
Operations	\$403,893,452	\$415,815,215	\$11,921,763	+3.0
Debt Service	246,295,118	237,609,708	-8,685,410	-3.5
Capital Program	495,941,106	826,073,540	\$330,132,434	+66.6
Total	\$1,146,129,676	\$1,479,498,463	\$333,368,787	+29.1

# ENV FY2021 CIP

Wastewater - \$765,114,540

Sewer Revenue Bonds - \$ 552,500,000

Sewer Cash - \$ 212,614,540

Solid Waste (GO Bonds) - \$ 60,959,000

# WASTEWATER FY2021 CIP

PAGE NO.	PROJECTS	FY2021 TOTAL	PHASE	EPA/DOH REQUIREMENT	COMPLETION DEADLINE
251	Ala Moana Wastewater Force Main No. 2 System – sewer cash funded	\$1,500,000	<u>P</u> , <u>D</u>		
254	Ala Moana WWPS Upgrade – sewer cash funded	\$103,000	P, <u>D</u> , <u>C</u> , <u>I</u>	2010 Consent Decree; Force Main Assessment Follow-up	12/31/20
256	Awa Street WWPS, Force Main and Sewer System Improvements – sewer cash funded	\$2,252,000	P, <u>D</u> , <u>C</u> , <u>I</u>	2010 Consent Decree	6/30/20
257	Awa Street WWPS Improvement/Rehab – sewer cash funded	\$501,000	<u>P</u> ,D		
259	Beachwalk WWPS Force Main System – sewer cash funded	\$103,000	P,D, <u>C</u> , I	2010 Consent Decree; Force Main Assessment Follow-up	n/a
260	Beretania Street Sewer Improvements – sewer cash funded	\$3,003,000	P,D, <u>C</u> , <u>I</u>		
262	Dowsett Highlands Relief Sewer – sewer cash funded	\$103,000	P,D,C, <u>I</u>	2010 Consent Decree	6/30/2020
263	<b>ENV Support Facilities at Honouliuli WWTP</b> – sewer cash funded	<b>\$71,202,000</b>	P,D, <u>C</u> , <u>I</u>		

# WASTEWATER FY2021 CIP

PAGE NO.	PROJECTS	FY2021 TOTAL	PHASE	EPA/DOH REQUIREMENT	COMPLETION DEADLINE
264	Ewa Beach WWPS Force Main System Improvements – sewer cash funded	\$1,001,000	P, <u>D</u>		
267	Hart Street/Waiakamilo Road Replacement Sewer – sewer cash funded	\$3,602,000	P,D, <u>C</u> , <u>I</u>		
268	Hart Street WWPS Force Main Improvements Phase 3 – sewer cash funded	\$752,000	P,D, <u>C</u>	2010 Consent Decree; Force Main Assessment Follow-up	n/a
269	Heeia WWPS Improvements – sewer cash funded	\$5,701,000	P, <u>D</u> , <u>C</u> , <u>I</u>		
271	Honolulu Area WWPS Facilities Improvements – sewer cash funded	\$203,000	P, <u>D</u> ,C,I		
274	Honouliuli WWTP Secondary Treatment - sewer cash funded	\$103,000	P,D,C, <u>I</u>	2010 Consent Decree	6/1/2024
275	Honouliuli Wastewater Treatment Plant Upgrade, Phase 2 - sewer cash funded	\$103,000	P, <u>D</u> ,C,I		
276	Honouliuli WWTP Effluent Treatment & Outfall Improvements – sewer cash funded	\$1,001,000	<u>P</u> ,D		

# WASTEWATER FY2021 CIP

PAGE NO.	PROJECTS	FY2021 TOTAL	PHASE	EPA/DOH REQUIREMENT	COMPLETION DEADLINE
277	Honouliuli WWTP Headworks, Pump Station, Energy Savings, Solids Process Upgrades and Misc. Improvements – sewer cash funded	\$7,001,000	P, <u>D</u>		
279	Iwilei, King Street, Kokea Street Area Sewer Improvements – sewer cash funded	\$1,001,000	P, <u>D</u>		
289	Kailua WWTP – Solids Handling System Improvements – sewer cash funded	\$1,000,000	<u>P</u> , <u>D</u>		
291	Kailua WWTP Upgrade, Phase 2 – sewer cash funded	\$1,003,000	P, D,C, <u>I</u>		
292	Kailua WWTP – Primary and Secondary Tank Rehabilitation – sewer cash funded	\$7,002,000	D, <u>C</u> ,I		
293	Kailua WWTP – TFSC & Biotower System Improvements – sewer cash funded	\$1,001,000	<u>P</u> ,D		
295	Kalihi /Nuuanu Area Sewer Rehabilitation/Improvements – sewer cash funded	\$301,000	<u>P</u> ,D	2010 Consent Decree	after 2020

# WASTEWATER FY2021 CIP

PAGE NO.	PROJECTS	FY2021 TOTAL	PHASE	EPA/DOH REQUIREMENT	COMPLETION DEADLINE
304	Laie Sewers & LPSS Pump Improvements – sewer cash funded	\$501,000	<u>P</u> ,D		
305	Lualualei WWPS Force Main – Shoreline Protection – sewer cash funded	\$201,000	P, <u>D</u>		
313	Pacific Palisades WWPS, Force Main. And Sewer System Improvements – sewer cash funded	\$501,000	<u>P</u> ,D		
314	Palolo Valley Sewer Rehabilitation/Relief – sewer cash funded	\$501,000	<u>P</u> ,D	2010 Consent Decree	after 2020
316	Pearl City/Waipahu Trunk Sewer – sewer cash funded	\$1,001,000	<u>P</u> ,D		
317	Pearl City Wastewater Pump Station, Force Station, and Sewer System Alternatives – sewer cash funded	\$382,000	P, <u>D</u> , <u>C</u> ,I		
318	Project Management for Wastewater Projects – sewer cash funded	\$8,121,000	<u>X</u>	Required to execute mandated projects	n/a
324	Sand Island WWTP Expansion, Primary Treatment – sewer cash funded	\$102,000	<u>D</u> ,C,I		



# WASTEWATER FY2021 CIP

PAGE NO.	PROJECTS	FY2021 TOTAL	PHASE	EPA/DOH REQUIREMENT	COMPLETION DEADLINE
325	Sand Island WWTP Improvements/Upgrade – sewer cash funded	\$900,000	<u>P</u> , <u>D</u>		
328	<b>Sand Island WWTP Secondary Treatment - a portion, \$16,001,000, is sewer cash funded</b>	<b>\$568,501,000</b>	<u>P</u> , <u>D</u> , <u>C</u> , <u>I</u>	2010 Consent Decree; Phase 1 Construction NTP by 1/1/22	12/31/35
334	Sewer Condition Assessment Program - sewer cash funded	\$3,001,000	<u>P</u> , <u>I</u>		
335	Sewer Easement Access Improvements – Mililani Effluent Sewer, Pacific Palisades, Aiea, Halawa Heights – sewer cash funded	\$602,000	<u>L</u> , <u>P</u> , <u>D</u>		
336	Sewer I/I Relief & Rehabilitation Projects – Ala Moana Tributary Basin – sewer cash funded	\$7,603,000	<u>L</u> , <u>P</u> , <u>D</u> , <u>C</u> , <u>I</u>		
339	Sewer I/I Relief & Rehabilitation Projects – Windward Area – sewer cash funded	\$4,702,000	<u>P</u> , <u>D</u> , <u>C</u> , <u>I</u>		
341	<b>Sewer Mainline and Lateral Projects – sewer cash funded</b>	<b>\$15,300,000</b>	<u>L</u> , <u>P</u> , <u>D</u> , <u>C</u> , <u>I</u>		

# WASTEWATER FY2021 CIP

PAGE NO.	PROJECTS	FY2021 TOTAL	PHASE	EPA/DOH REQUIREMENT	COMPLETION DEADLINE
344	Sewer Relief & Rehabilitation – Leeward Area – sewer cash funded	\$801,000	<u>P</u> ,D		
358	Waimalu WWPS Force Main System – sewer cash funded	\$151,000	P, <u>D</u>		
360	Waimanalo WWTP – Solids System Improvements – sewer cash funded	\$1,000,000	<u>P</u> , <u>D</u>		
362	Waipahu WWPS Force Mains Rehabilitation – sewer cash funded	\$1,002,000	L, <u>P</u> ,D		
365	<b>Wastewater Equipment – sewer cash funded</b>	<b>\$16,758,540</b>	<u>E</u>		
366	Wastewater Facilities Replacement Reserve – sewer cash funded	\$5,000,000	<u>X</u>	previous federal grant program requires an emergency reserve	n/a
367	Wastewater Planning and Programming – sewer cash funded	\$339,000	<u>X</u>		
368	Wastewater Program Management – sewer cash funded	\$2,002,000	<u>P</u> ,D,I		

# WASTEWATER FY2021 CIP

<u>PAGE NO.</u>	<u>PROJECTS</u>	<u>FY2021 TOTAL</u>	<u>PHASE</u>	<u>EPA/DOH REQUIREMENT</u>	<u>COMPLETION DEADLINE</u>
370	Wastewater Treatment Plant, Pump Station, and Force Main Projects – sewer cash funded	\$16,600,000	L,P,D,C,I	includes miscellaneous work required for 2010 Consent Decree	final deadline for coll. sys. work is 6/30/2020
	TOTAL =	\$765,114,540			

# SOLID WASTE FY2021 CIP

<u>PAGE NO.</u>	<u>PROJECTS</u>	<u>FY2021 TOTAL</u>	<u>PHASE</u>
2	<b>Procurement of Major Equipment (Solid Waste Equipment)</b>	<b>\$13,546,000</b>	<b><u>E</u></b>
216	Enhanced Materials Recovery Facility	\$5,050,000	<b><u>D,C,I</u></b>
220	Kapaa Transfer Station Renovation	\$1,201,000	<b><u>D,C,I</u></b>
221	Kawailoa Transfer Station – Modifications/ Rehabilitation	\$3,002,000	<b>D,<u>C</u>,I</b>
222	Keahi Transfer Station – Modifications/Rehabilitation	\$2,425,000	<b><u>D,C,I</u></b>
223	Leeward Refuse Collection Baseyard and Convenience Center	\$7,502,000	<b>D,<u>C</u>,I</b>
224	Oahu Sanitary Landfill	\$501,000	<b><u>P</u>,D</b>
226	Refuse Facilities Improvements at Various Locations	\$1,350,000	<b><u>D,C,I</u></b>
227	Solid Waste to Energy Facility (H-Power) Access Improvements	\$302,000	<b><u>D</u>,C,I</b>

# SOLID WASTE FY2021 CIP

PAGE NO.	PROJECTS	FY2021 TOTAL	PHASE
228	<b>Solid Waste to Energy Facility (H-Power) Conversion Technologies</b>	<b>\$15,002,000</b>	D, <u>C</u> ,I
231	Solid Waste to Energy Facility (H-Power) Improvements	\$8,003,000	P,D, <u>C</u> ,I
236	Waipahu Incinerator Site – Area Cleanup and Improvements	\$3,075,000	<u>P</u> , <u>D</u> , <u>C</u> , <u>I</u>
	TOTAL =	\$60,959,000	

# COUNCIL DISTRICT 1

ENV FY2021 CIP  
Construction Funding

WAIANAE

LUALUALEI

NANAKULI

Council  
District 9

WAIPAHU

WEST  
LOCH

HONOUULIULI WASTEWATER TREATMENT PLANT  
SECONDARY TREATMENT  
HONOUULIULI WASTEWATER TREATMENT PLANT  
UPGRADE, PHASE 2

ENV SUPPORT FACILITIES  
AT HONOUULIULI WWTW

ENHANCED MATERIALS RECOVERY FACILITY  
SOLID WASTE TO ENERGY FACILITY (H-POWER)  
CONVERSION TECHNOLOGIES  
SOLID WASTE TO ENERGY FACILITY (H-POWER)  
ACCESS IMPROVEMENTS  
SOLID WASTE TO ENERGY FACILITY (H-POWER)  
IMPROVEMENTS  
LEEWARD REFUSE COLLECTION BASEYARD  
AND CONVENIENCE CENTER

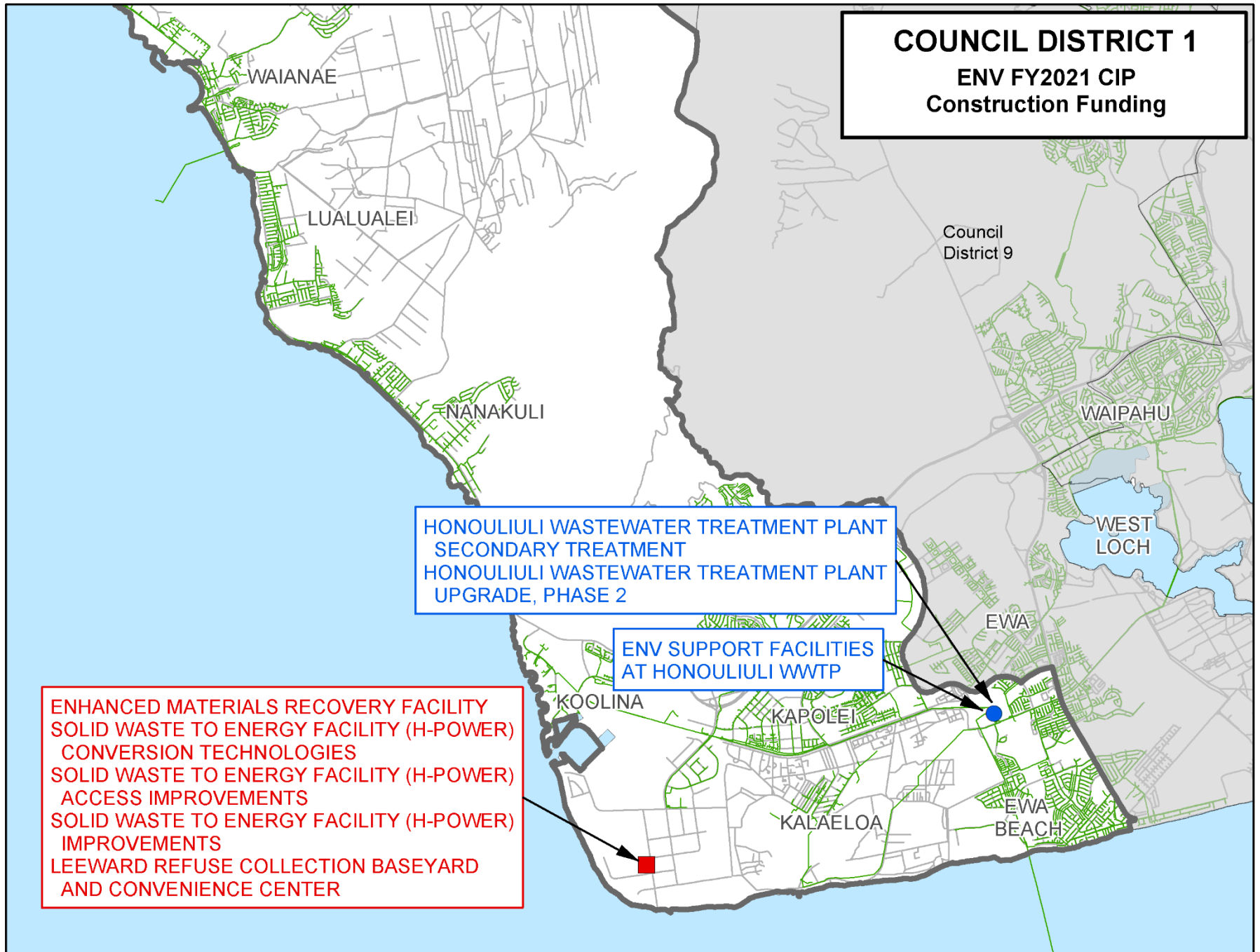
KOOLINA

KAPOLEI

KALAELOA

EWA

EWA  
BEACH



## COUNCIL DISTRICT 2

ENV FY2021 CIP  
Construction Funding

TURTLE BAY

KAHUKU

LAIE

HALEIWA

KAWAILOA TRANSFER STATION  
MODIFICATIONS/REHABILITATION

WAHIAWA

MILILANI  
MAUKA

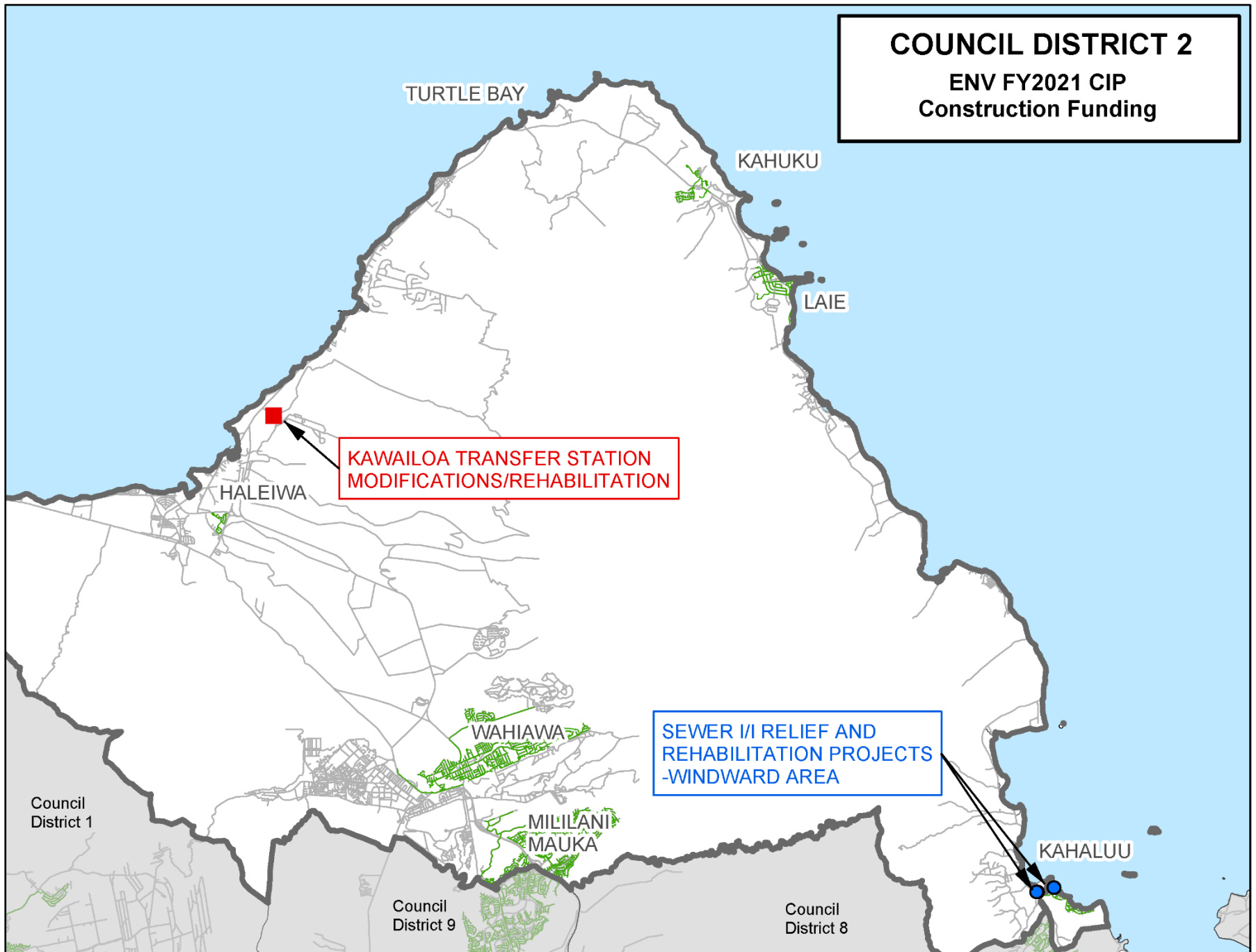
SEWER I/I RELIEF AND  
REHABILITATION PROJECTS  
-WINDWARD AREA

KAHALUU

Council  
District 1

Council  
District 9

Council  
District 8





# COUNCIL DISTRICT 3

ENV FY2021 CIP  
Construction Funding

Council  
District 2

HEEIA WASTEWATER  
PUMP STATION  
IMPROVEMENTS

KANEOHE

KAILUA WASTEWATER TREATMENT PLANT  
UPGRADE, PHASE 2  
KAILUA WWTP  
- PRIMARY AND SECONDARY TANK  
REHABILITATION

KAILUA

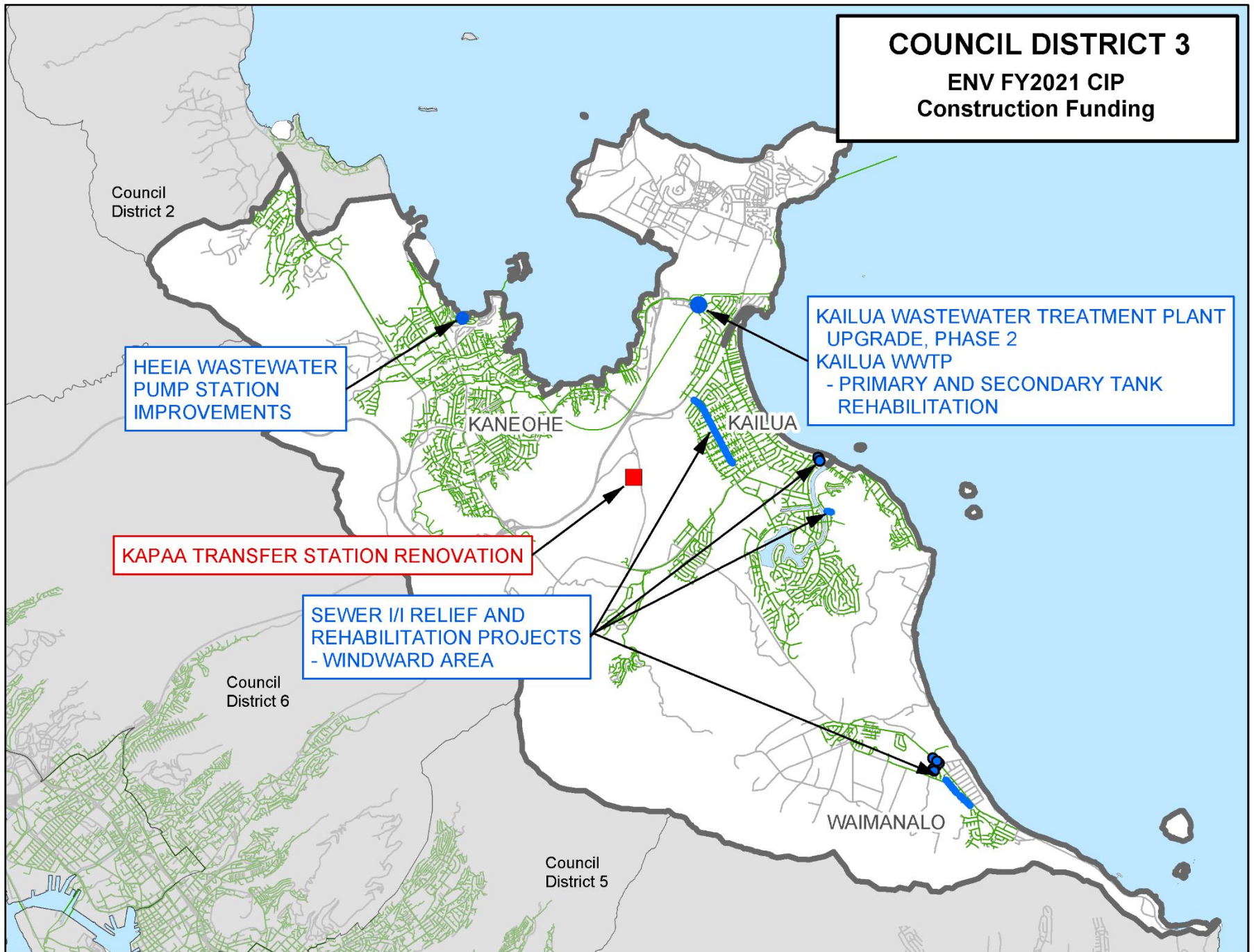
KAPAA TRANSFER STATION RENOVATION

SEWER I/I RELIEF AND  
REHABILITATION PROJECTS  
- WINDWARD AREA

Council  
District 6

WAIMANALO

Council  
District 5





# COUNCIL DISTRICT 4

ENV FY2021 CIP  
Construction Funding

Council  
District 6

Council  
District 3

Council  
District 5

MANOA

BEACHWALK  
WASTEWATER PUMP STATION  
FORCE MAIN SYSTEM

PALOLO

HAWAII KAI

KULIQUOU

NIU VALLEY

WAIALAE IKI

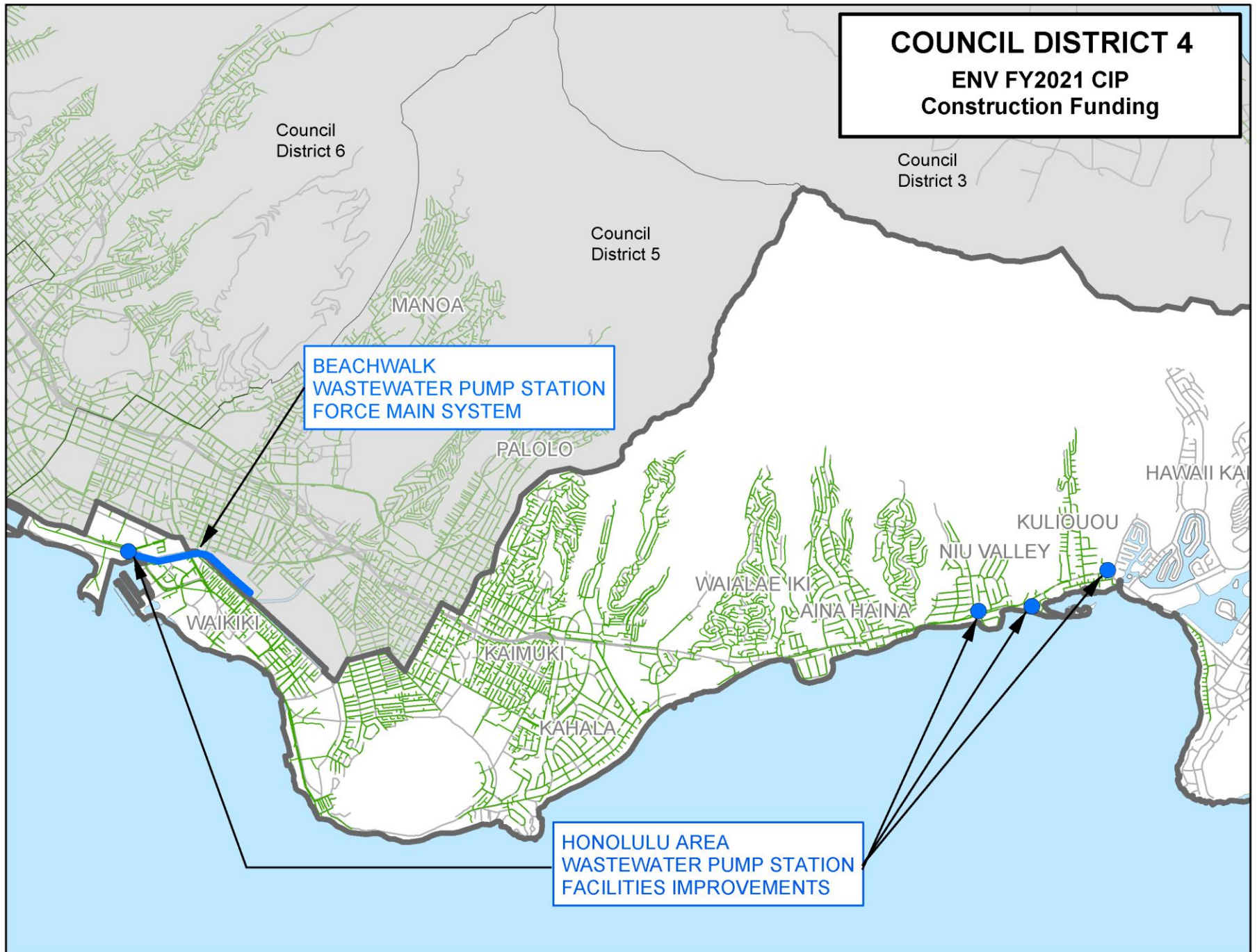
AINA HAINA

WAIKIKI

KAIMUKI

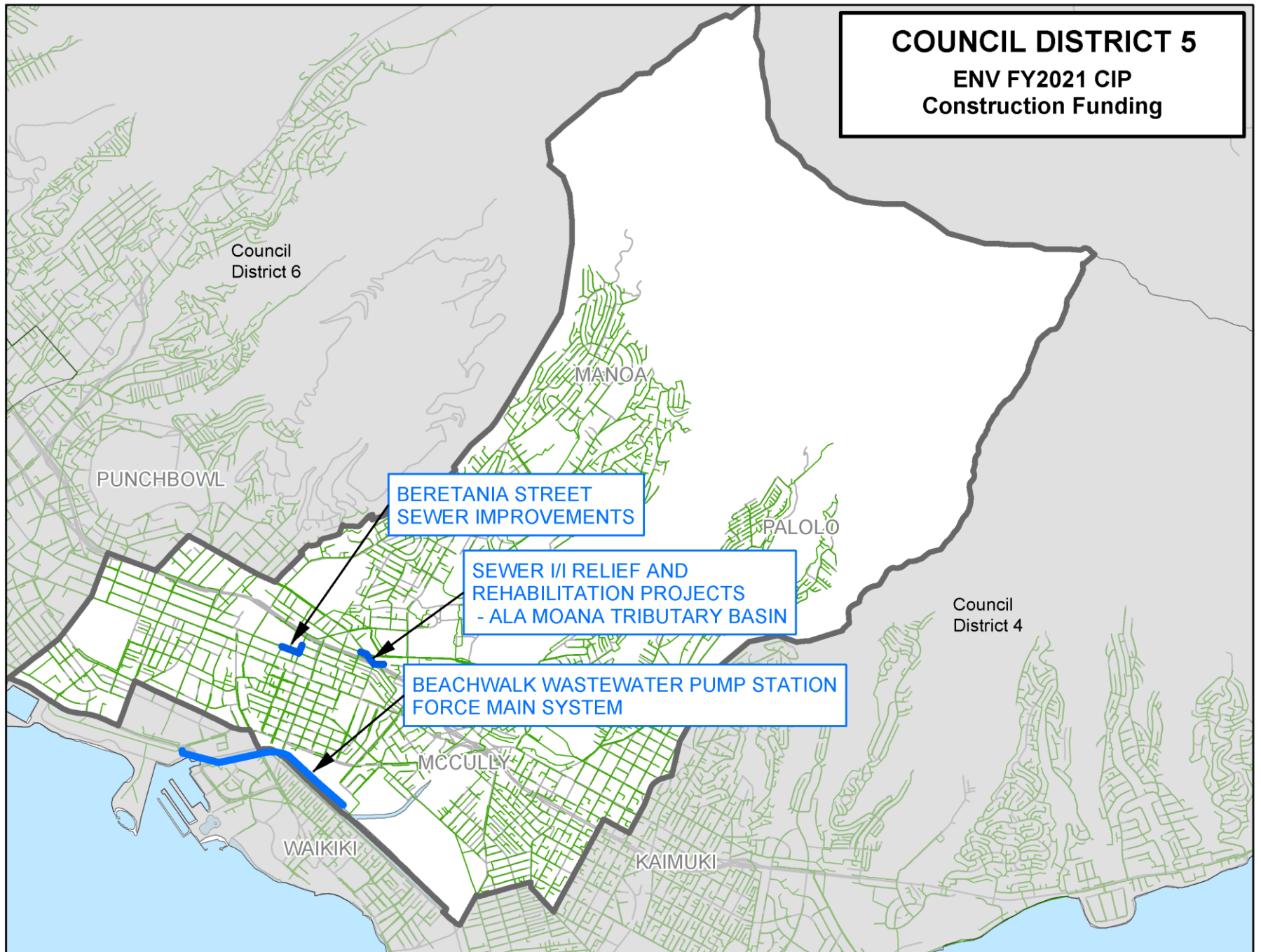
KAHALA

HONOLULU AREA  
WASTEWATER PUMP STATION  
FACILITIES IMPROVEMENTS



# COUNCIL DISTRICT 5

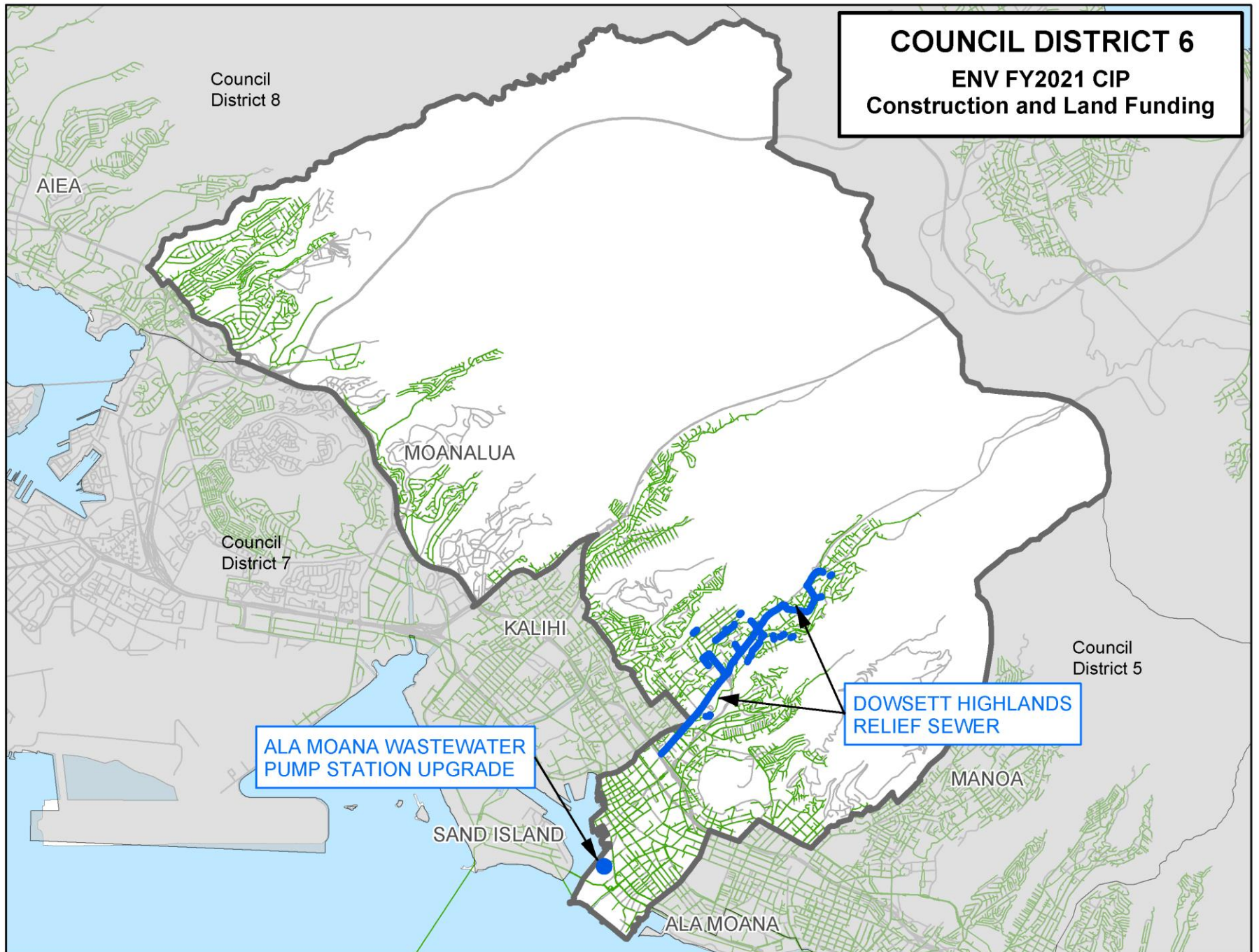
ENV FY2021 CIP  
Construction Funding





# COUNCIL DISTRICT 6

ENV FY2021 CIP  
Construction and Land Funding



# COUNCIL DISTRICT 7

ENV FY2021 CIP  
Construction Funding

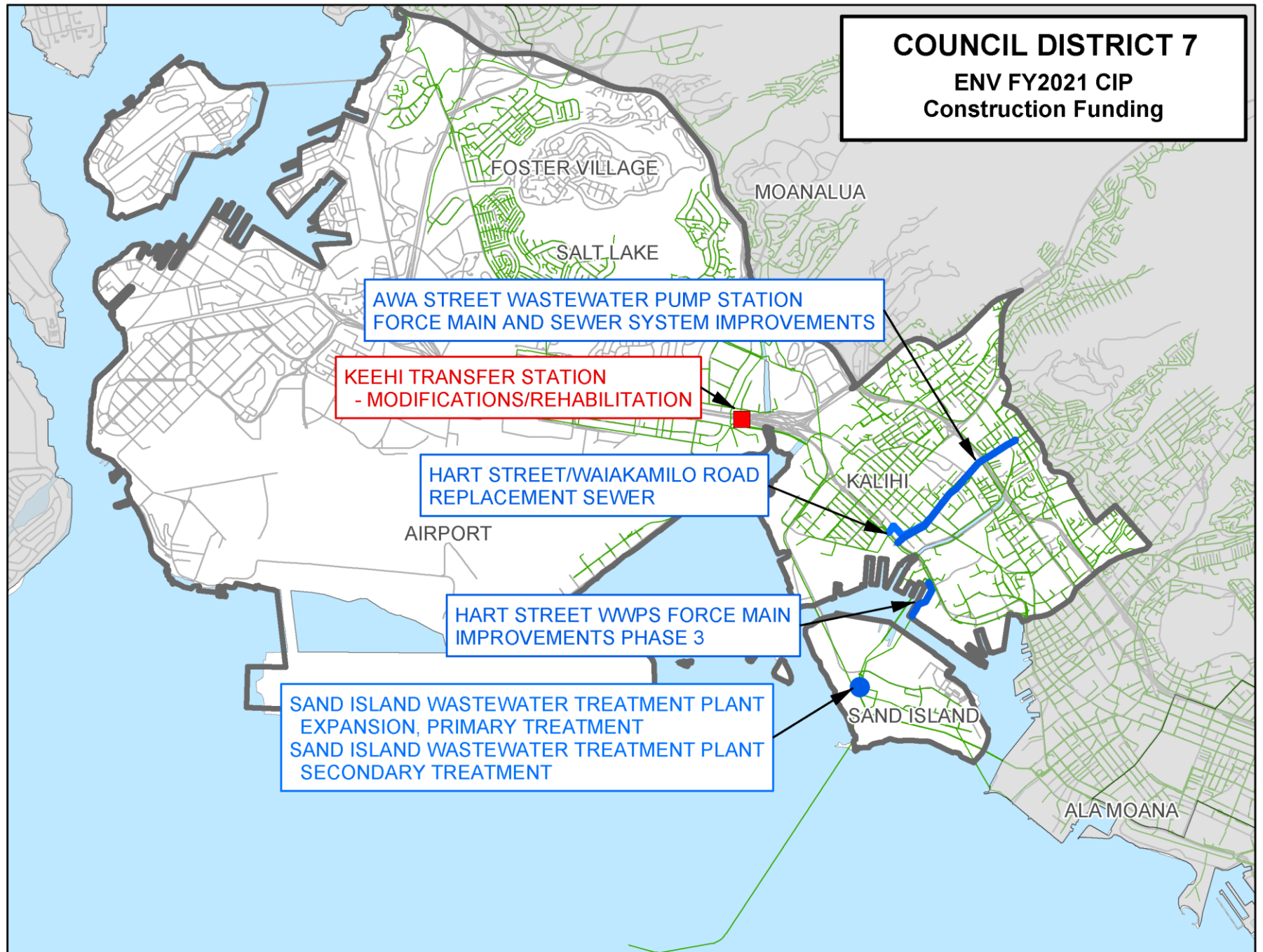
AWA STREET WASTEWATER PUMP STATION  
FORCE MAIN AND SEWER SYSTEM IMPROVEMENTS

KEEHI TRANSFER STATION  
- MODIFICATIONS/REHABILITATION

HART STREET/WAIKAMULO ROAD  
REPLACEMENT SEWER

HART STREET WWPS FORCE MAIN  
IMPROVEMENTS PHASE 3

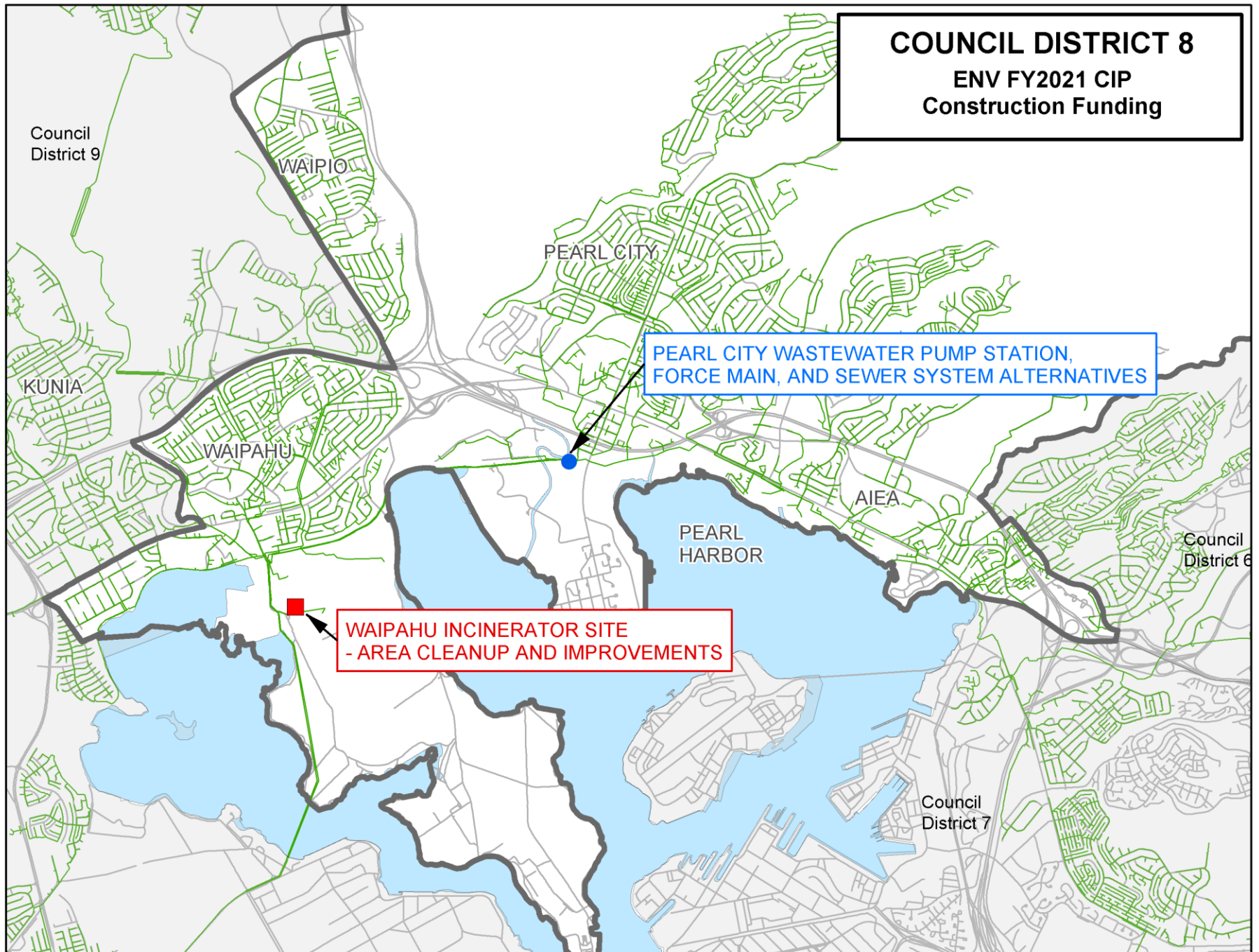
SAND ISLAND WASTEWATER TREATMENT PLANT  
EXPANSION, PRIMARY TREATMENT  
SAND ISLAND WASTEWATER TREATMENT PLANT  
SECONDARY TREATMENT





# COUNCIL DISTRICT 8

ENV FY2021 CIP  
Construction Funding



# FY 2021 DEPARTMENT OPERATING APPROPRIATION

	FY 20	FY 21	\$ Change	% Change
<b>Solid Waste</b>	<b>\$167,160,598</b>	<b>\$169,437,707</b>	<b>\$2,277,109</b>	<b>+1.4</b>
<b>Wastewater</b>	<b>127,244,357</b>	<b>130,961,926</b>	<b>3,717,569</b>	<b>+2.9</b>
<b>TOTAL</b>	<b>\$294,404,955</b>	<b>\$300,399,633</b>	<b>\$5,994,678</b>	<b>+2.0</b>

# FY 2021 DEPARTMENT OPERATING SUMMARY

	FY 2020	FY 2021	\$ Change	% Change
Salary	\$73,132,376	\$77,109,413	\$3,977,037	+5.4
Current Expense	221,272,579	222,390,220	1,117,641	+0.5
Equipment	0	900,000	900,000	
TOTAL	\$294,404,955	\$300,399,633	\$5,994,678	+2.0

# ENV FY 2021 SALARIES

	FY2020	FY 2021	\$ Change	% Change
Administration	\$2,552,293	\$2,676,679	+\$124,386	+4.9
Environmental Quality	5,318,651	5,374,530	+55,879	+1.1
Collection Syst Maintenance	13,388,036	13,775,892	+387,856	+2.9
WW Treatment and Disposal	24,624,401	27,111,973	+2,487,572	+10.1
WW Engineering and Construction	751,434	1,016,255	+264,821	+35.2
Refuse	26,497,561	27,154,084	+656,523	+2.5
TOTAL	\$73,132,376	\$77,109,413	+3,977,037	+5.4



Department of Environmental Services  
Special and Grant Funded Vacancies  
(Budgeted in Agency Salaries)

	<u>Positions</u>
Vacant Positions as of 2/1/2020*	242
Disposition of funded vacancies:	
To be filled before July 1, 2020	124
To be filled in FY 2021	118
No. of vacant positions that may be abolished	0

\*Reflects the deletion of 19 deactivated positions.

Department of Environmental Services  
General/Subsidized Funded Vacancies  
(Budgeted in Provision for Vacant Positions)

	<u>Positions</u>
Vacant Positions as of 2/1/2020*	43
Disposition of funded vacancies:	
To be filled before July 1, 2020	29
To be filled in FY 2021**	14
No. of vacant positions that may be abolished	0

*\*Reflects the deletion of 41 deactivated positions.*

*\*\*Funding in the Provision for Vacant Positions account has been reduced*

# ENV FY 2021 CURRENT EXPENSE

DIVISION	FY 2020	FY 2021	\$ Change	% Change
Administration	\$8,879,595	\$8,027,585	-\$852,010	-9.6
Environmental Quality	4,755,555	1,529,695	-3,225,860	-67.8
Collection System Maintenance	12,280,000	13,503,000	+1,223,000	+10.0
WW Treatment and Disposal	54,051,651	57,309,373	+3,257,722	+6.0
WW Engineering and Construction	1,015,930	1,017,930	+2,000	+.2
Refuse	140,289,848	141,002,637	+712,789	+0.5
<b>TOTAL</b>	<b>\$221,272,579</b>	<b>\$222,390,220</b>	<b>+\$1,117,641</b>	<b>+0.5</b>

# FY 2021 DEPARTMENT OPERATING EQUIPMENT

	FY 2020	FY 2021	\$ Change
Refuse	0	\$900,000	+\$900,000
TOTAL	0	\$900,000	+\$900,000

# SOLID WASTE

## OPERATING BUDGET APPROPRIATION

SOLID WASTE FUND	FY20	FY21	% CHANGE
Operations	\$167,160,598	\$169,437,707	+1.4
Non-Salary Personnel Costs	22,982,773	24,221,972	+5.4
Provision for Vacant Positions	2,262,427	3,423,362	+51.3
Debt Service(GO Bonds)	43,859,449	44,419,891	+1.3
Support by Other City Agencies	23,559,899	23,333,613	-1.0
SUB-TOTAL	259,825,146	264,836,545	+1.9
LEGISLATIVE	11,000	12,000	9.1
TOTAL	\$259,836,146	\$264,848,545	+1.9

# WASTEWATER

## OPERATING BUDGET APPROPRIATION

SEWER FUND	FY 20	FY21	% Change
Operations/Related Costs	\$127,244,357	\$130,961,926	+2.9
Non-salary Personnel Costs	35,605,173	36,768,979	+3.3
Provision for Energy Cost	1,500,000	1,500,000	0.0
Provision for Vacant Positions	146,297	169,196	+15.7
Debt Service (GO Bonds)	86,669	77,817	-10.2
Debt Service (Revenue Bonds)	202,349,000	193,112,000	-4.6
Support by Other City Agencies	23,360,928	25,926,460	+11.0
SUBTOTAL	390,292,424	388,516,378	-0.5
LEGISLATIVE	60,000	60,000	0.00
TOTAL	\$390,352,424	\$388,576,378	-0.5

# SOLID WASTE REVENUES

Revenue	FY 20 Estimate Operating Budget	FY 21 Estimate Operating Budget	% Change
- Tip Fees – Private Direct (H-Power)	\$32,400,000	\$31,185,000	-3.8
- Tip Fees – Other (H-Power)	22,940,000	21,700,000	-5.4
- Electrical Energy (H-Power)	70,000,000	70,000,000	0.0
- Investments	2,427,000	2,260,000	-6.9
- Disposal Charges (Landfill/Transfer Stations)	11,176,800	10,684,800	-4.4
- Other Revenue	640,700	640,700	0.0
<b>TOTAL</b>	<b>\$139,584,500</b>	<b>\$136,470,500</b>	<b>-2.2</b>

# WASTEWATER REVENUES

	FY 20 Estimate Operating Budget	FY 21 Estimate Operating Budget	% Change
<b>Sewer Service Charges</b>	<b>\$453,430,350</b>	<b>\$455,819,600</b>	<b>+0.5</b>
<b>System Facility Charges</b>	<b>10,902,400</b>	<b>10,902,400</b>	<b>0.0</b>
<b>Investments</b>	<b>21,113,000</b>	<b>7,229,879</b>	<b>-65.8</b>
<b>Others</b>	<b>3,751,641</b>	<b>3,295,594</b>	<b>-12.2</b>
<b>TOTAL</b>	<b>\$489,197,391</b>	<b>\$477,247,473</b>	<b>-2.4</b>



Mahalo.

Questions?